

Form PTO-1449 U.S. Department of Commerce

Atty. Docket No.  
ENZ-52(C)(D3)

Serial No. 10/717,140

Patent and Trademark Office

INFORMATION DISCLOSURE CITATION  
(Use several sheets if necessary)

Applicants: Engelhardt, et al

Filed: Nov. 18, 2003

Group: Not yet known

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPRO- PRIATE
<i>m</i>	4 9 5 7 8 5 8	—	Chu et al	—	—	—
<i> </i>	5 2 4 1 0 6 0	—	Engelhardt et al	—	—	—
<i> </i>	5 1 3 0 2 3 8	—	Malek, L.T.	—	—	—
<i> </i>	4 6 8 3 1 9 5	—	Mullis, et al	—	—	—
<i> </i>	5 2 8 8 6 0 9	—	Engelhardt et al	—	—	—
<i>✓</i>	4 7 0 7 4 4 0	—	Stavrianopoulos et al	—	—	—

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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRAN- SLATION YES NO
<i>m</i>	EP 0 3 2 0 3 0 8	—	Backman, K.	—	—	—
<i> </i>	EP 0 4 3 9 1 8 2	—	Backman, K.	—	—	—
<i>✓</i>	EP 0 4 3 5 1 5 0	—	Brakel et al	—	—	—

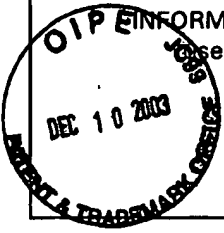
## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>m</i>	—	Barany, F., Proc. Nat. Acad. Sci USA "Genetic disease detection and DNA amplification using cloned thermostable ligase," 88:189-193 (1991)
<i> </i>	—	Fuerst, T.R. et al., "Eukaryotic transient-expression system based on recombinant vaccinia virus that synthesizes bacteriophage T7 RNA polymerase," Proc Nat Acad Sci USA 83: 8122-8126 (1986)
<i> </i>	—	Guatelli, J.C. et al., "Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," Proc Nat Acad Sci. USA 87: 1874-78 (1990)
<i> </i>	—	Keller and Manak (DNA Probes, MacMillan Publishers Ltd, Great Britain, and Stockton Press (U.S. and Canada, 1989, pages 225-228)
<i> </i>	—	Karkas, J.D. et al., "Action of DNA Polymerase I of <i>Escherichia coli</i> with DNA-RNA Hybrids as Templates," Proc Nat Acad Sci U.S.A. 69(2): 398-402 (1972)
<i> </i>	—	Kievits, T., et al. "NASBA" isothermal enzymatic <i>in vitro</i> nucleic acid amplification optimized for the diagnosis of HIV-1 infection," J. Virol. Methods 35: 273-286 (1991)
<i>✓</i>	—	Landegren, U., et al., "Ligase-Mediated Gene Detection Technique," Science 241: 1077-1080 (1988)

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<i>u</i>	0 7	9 5 6 5 6 6	10/5/92	Rabbani et al			
		4 7 1 1 9 5 5		Ward et al			
		5 9 5 8 6 8 1		Wetmur et al			
		5 0 4 3 2 7 2		Hartley, J.L.			
		5 3 5 4 6 6 8		Auerbach et al			
		5 5 1 6 6 6 3		Backman et al			
		6 1 8 3 9 6 1		Bernstein et al			

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<i>u</i>	EP	0 1 2 8 3 3 2		Pergolizzi et al			
	EP	0 4 9 2 5 7 0		Stavrianopoulos et al			
	EP	0 5 0 0 2 2 4		Walker et al			

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<i>u</i>	Kwoh, D.Y. et al., "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format," <u>Proc Nat Acad Sci. USA.</u> , 86: 1173-1177 (1989)
	Lizardi et al., "Exponential amplification of recombinant RNA hybridization probes," <u>Biotechnology</u> 6: 1197-1202 (1988)
	Mullis and Faloona, "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction," <u>Methods in Enzymology</u> 155: 335-351 (1987)
	Saiki, et al., "Enzymatic Amplification of $\beta$ -Globin Genomic Sequences and Restriction Site Analysis for Diagnosis of Sickle Cell Anemia," <u>Science</u> 230: 1350-1354 (1985)
	Walker, G.T. et al., "Isothermal <i>in vitro</i> amplification of DNA by a restriction enzyme/DNA polymerase system," <u>Proc Natl Acad Sci USA</u> 89: 392-396 (1992)
	Walker, G.T. et al., "Strand displacement amplification - an isothermal, <i>in vitro</i> DNA amplification technique," <u>Nuc Acids Res.</u> 20: 1691-1696 (1992)

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<i>u</i>	5 7 5 6 2 9 6	<i>u</i>	Cubiciotti	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	5 8 7 1 9 1 1	<i>u</i>	Dahlberg et al	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	5 8 4 3 7 2 3	<i>u</i>	Dubensky et al	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	5 9 5 5 3 5 1	<i>u</i>	Gerdes et al	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	5 6 1 2 2 1 2	<i>u</i>	Gerwitz	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	6 1 9 0 8 8 9	<i>u</i>	Jones	<i>u</i>	<i>u</i>	<i>u</i>

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
<i>u</i>	EP 0 5 4 3 6 1 2	<i>u</i>	Walker et al	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	EP 0 4 9 7 2 7 2	<i>u</i>	Walker, GT	<i>u</i>	<i>u</i>	<i>u</i>
<i>u</i>	EP 0 4 5 0 5 9 4	<i>u</i>	Segev et al	<i>u</i>	<i>u</i>	<i>u</i>

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>u</i>	Wetmur, J.G. and Davidson, N., "Kinetics of Renaturation of DNA," <u>J. Mol. Biol.</u> 31: 349-370 (1968)
<i>u</i>	Wu, D. and Wallace, R.B. "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <u>Genomics</u> 4: 560-569 (1989)
<i>u</i>	Courey et al. "Influence of DNA Sequence and Supercoiling on the Process of Cruciform Formation," <u>Journal of Molecular Biology</u> 202: 35-43 (1988)
<i>u</i>	Knorre et al. "Oligonucleotides with Highly Reactive Groups Selectively Bound By E. Coli RNA Polymerase: Identification of the Enzyme Subunits Interacting with Them and The Competitive Inhibition of Transcription," <u>IZV SIB OTD ADAD NAUK SSR SER BIOL NAUK</u> 0(2): 98-104 (1989)
<i>u</i>	Matthews et al., "Analytical Strategies for the Use of DNA Probes," <u>Analytical Biochemistry</u> 169: 1-25 (1988)
<i>u</i>	Meric et al., "Rous Sarcoma Virus Nucleic Acid-binding Protein p12 is Necessary for Viral 70S RNA Dimer Formation and Packaging," <u>Journal of Virology</u> , 60(2): 450-459 (1986)

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<i>W</i>		5	3	9	9	4	9	1	<i>12/7/99</i>	Kacian et al			
	H1	8	2	5					12/7/99	Romano et al			
		5	1	1	8	6	0	5		Urdea			
		5	4	5	5	1	6	6		Walker			
		5	9	6	5	4	0	9		Pardee et al			

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		1	4	6	2	9	9		6/15/93	Aono et al			YES	NO
<i>W</i>	EP	0	1	7	8	8	6	3		Reim et al				
<i>W</i>	EP	0	3	9	5	3	9	8		Hartley et al				

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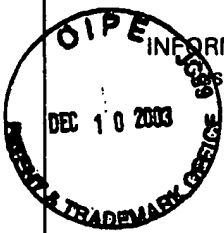
<i>W</i>	<i>1</i>	Ostrander et al. "Template Supercoiling by a Chimera of Yeast GAL4 Protein and Phage T7 RNA Polymerase," <u>Science</u> : 249: 1261-1265 (1990)
	<i>1</i>	Promega Catalog, Page 150, Figure 4G
	<i>1</i>	Watson et al. <u>In Molecular Biology of the Gene</u> , Benjamin/Cummings, Publishing, Ch 10 (1987)
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	WO	9 0 0 2 8 1 9		Chu et al			
	WO	9 4 2 6 9 1 1		Wagner et al			
	WO	9 5 1 4 7 8 9		Berg et al			
<i>W</i>	EP	0 4 0 6 7 3 8		Igarashi et al			

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	✓	Tabor, S., et al, "A bacteriophage T7 RNA polymerase/promoter system for controlled exclusive expression of specific genes," <u>Proc. Natl. Acad. Sci. USA</u> , 82:1074-1078 (1985)
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